

# FOLIO

University of Alberta

10 July 1986

## Meekison Named Officer of the Order of Canada

J. Peter Meekison, Vice-President (Academic) since July 1984, has been named Officer of the Order of Canada, appointment to the Order being our country's highest distinction.

Dr. Meekison, before his return to this University in 1984, held a series of appointments in the provincial government which culminated in his appointment as Deputy Minister of Alberta Federal and Intergovernmental Affairs (FIGA). In this position he was intimately involved with the discussions and negotiations that led to the patriation of our country's constitution. As Don Braid, former political columnist for the *Edmonton Journal* noted (10 January 1984), "the amending provision now in the Constitution, sometimes called the Alberta Formula, should really be known as the Meekison Method. He invented most of it." Braid, rightly, also described Meekison as "a political scientist who became a brilliant public servant."

Dr. Meekison is a graduate of UBC. His previous posts at our University have included chairmanship of the Department of Political Science and service as Associate Dean of the Faculty of Graduate Studies and Research. □

## Vargo New Associate Dean of Student Affairs, Faculty of Rehabilitation Medicine

James Vargo has been appointed Associate Dean of Student Affairs for the Faculty of Rehabilitation Medicine. His appointment took effect on 1 July.

Dr. Vargo received his doctoral degree from this University specializing in the area of counselling psychology and psychological assessment. In 1975, he was appointed as a full-time faculty member in the Department of Occupational Therapy where he is now a Full Professor. Dr. Vargo also holds an additional appointment with the Department of Educational Psychology as Honorary Professor. □

## Miller Installed as Chancellor

Associate Chief Justice of the Court of Queen's Bench of Alberta, Tevie Miller, was installed Monday, 7 July, as the University's thirteenth Chancellor. The ceremony, echoing medieval traditions of learning and University independence, took place in a packed Convocation Hall before Chancellor Miller's family and friends and notable visitors, Chancellors and Presidents from other universities. Mr. Miller was presented to Convocation by former Chancellor Jean Forest. The Hon. Helen Hunley, Lieutenant-Governor, administered the oath of office.

Forest in her presentation read excerpts from several of the letters sent to the University's selection committee in support of Mr. Miller's candidacy. Without fail, the authors of those letters referred to the challenging position of Chancellor as one which symbolizes a necessary connection between the University community and the people of Alberta. They referred too to Mr. Miller's long tradition of public service and his "abiding interest in the community" for which he has been rightly recognized. Mr. Miller, for example, is the first non-nurse to be awarded honorary membership



Chancellor Miller

in the Alberta Association of Registered Nurses.

Congratulatory messages abounded. Jim Edwards, MP for Edmonton South and Parliamentary Secretary to the Minister of Communications, brought greetings on behalf of the Government of Canada. The Hon. Nancy Betkowski, Minister of Education, offered good wishes from the Government of Alberta. Norman E. Wagner, President of the University of Calgary, presented congratulations to the new Chancellor on behalf of the Association of Universities and Colleges of Canada, the Council of Western Canadian University Presidents, and the Universities Coordinating Council. Chairman of our Board of Governors, John Schlosser, offered our community's congratulations and the Rev. Garth Mundle brought greetings from the affiliated colleges. In addition, greetings were presented to Chancellor Miller by Chancellors and other representatives of universities across the country as well as by representatives of our student and staff associations, the University of Alberta Hospitals and the Alberta Research Council.

Mr. Miller, in his first address as Chancellor, remarked upon his

pleasure and sense of honour at having the oath of office administered by the Lieutenant-Governor and he paid tribute to his predecessors, especially Jean Forest and Peter Savaryn. Chancellor Miller noted that in 1946 he was the cheer squad leader for several University teams. Now, almost exactly 40 years later, he has become the University's chief cheer leader.

The Chancellor referred in detail to the planning process currently under way and served notice that he, as Chairman of Senate and past President of the General Alumni Association, takes very seriously that section in *The Next Decade and Beyond* which recommends a closer involvement of the Senate and alumni in "the activities and planning in the University in order to obtain their support and guidance."

Following the formal installation, at which musical offerings were made by Lori Klingbeil, members of the Convocation Band under the direction of Ernest Dalwood, Ron Komarniski and Dwayne Barr, a reception was held in the quad adjacent to the Arts Building.

For Chancellor Miller and many other members of our community and honoured guests, the day's festivities continued. In the evening there was a gala dinner in honour of the Chancellor at the Westin Hotel. The Hon. Dave Russell, Minister of Advanced Education, brought greetings from the Government of Alberta. Deputy Mayor Lance White offered greetings from the City of Edmonton. Joan Cowling congratulated the Chancellor on behalf of the Edmonton Public School Board and Hugh Tadman brought greetings from Edmonton Catholic Schools. Louis Desrochers, Chancellor Emeritus, wrapped up the celebrations with a review of Chancellor Miller's many accomplishments and saluted Mrs. Miller and other members of the Chancellor's family.

Now the work begins. □

## Contents

- GFC wrestles plagiarism into submission
- Kaplan's Report to Convocation
- Business Faculty embarks on fund-raising campaign
- Technology transfer seminar



## GFC Meeting

# 'Intent to Deceive' Removed From Definition of Plagiarism

The latest meeting of General Faculties Council was held on 23 June. There were various items discussed and reported on. What follows is a summary of the major items of business.

### Amendments to the Code of Student Behavior

Three amendments, or changes in wording, for discrete elements in the Code of Student Behavior were proposed and adopted. One had to do with an inadvertent omission from the most recent major revision of the Code—a prohibition on smoking during classes and labs, or at any time and in any area where the unfortunate practice has been outlawed according to University ordinance. That has been added to Section 43.2.12 of the Code.

A second amendment dealt with the subject of "penalties levied by an instructor for academic offenses" (Section 43.12.2(b). Section 43.12.2(b) read "(iii) Grade reduction on the assignment" and

"(iv) Recommendation to the Dean of the Faculty in which the offence occurred that the student's registration in the course be cancelled. This section now reads: "(iii) Grade reduction on the work submitted and/or examination," and "(iv) Recommendation to the Dean of the Faculty in which the offence occurred that the student no longer be permitted to attend the course and that the student be given a mandatory grade of 1F which will appear on the transcript." Essentially, the latter addition reflects the practice of the Office of the Registrar. The presence of the grade "1F" in a transcript, however, does not necessarily indicate an academic offence—in reply to one question, the Registrar agreed that a student could attain such a grade by diligence and hard work.

The third matter relating to the Code of Student Behavior was much more substantial and, apparently, controversial.

### Plagiarism

Prior to Monday, 23 June, Section 43.3.1 of the Code of Student Behavior read as follows:

a) No student shall, with intent to deceive, represent the words or ideas of another person as his or her own in any academic writing, essay, thesis, research report, project or assignment submitted in a course or a program of study or represent as his or her own an entire essay or work of another, whether the material so represented constitutes a part or the entirety of the work submitted.

b) Upon demonstration that the student has represented another person's words or ideas as his or her own, the student shall bear the burden of providing such explanation or evidence as is capable of raising a reasonable doubt in the mind of the person hearing the case that there was an intent to deceive.

This entire section was replaced by the following, as proposed by the Campus Law Review Committee:

a) No student shall submit the words, ideas, images or data of another person as his or her own in any academic writing, essay, thesis, research project or assignment in a course or program of study.

a minority opinion of CLRC, objected to such a characterization, observing that those accused of plagiarism were indeed acquitted. For him, the essence of the debate was whether or not the intent to deceive is inherent in the offence of plagiarism.

A.M. Small, a member of GFC's Executive Committee, argued for the inclusion of the words "without proper acknowledgment". His view, rejected by many present, was that it is difficult always to know the exact source of an idea, and especially so in a discipline such as his (Classics) which encompasses so many years in the growth of Western thought. For him, the issue was not so much intent to deceive as it was appropriate acknowledgment. He, therefore, moved an amendment to the CLRC requiring the inclusion of the words "without proper acknowledgment".

S.H. Arnold, Associate Dean of Graduate Studies and Research, argued against the amendment. For him, as for many others, the intent to deceive was the central issue. Intent to deceive is difficult to demonstrate with the result that the "guilty will be getting off". He also wagered that graduate students would support the CLRC definition and observed that his reading of calendars from other universities suggested that the intent to deceive is not essential to the offence of plagiarism as it is defined at other institutions.

Small's proposed amendment was defeated and, after further procedural discussion, the CLRC's definition was put to the vote, but not without a heartfelt plea from M. Asch of Anthropology for retention of "intent to deceive" within a definition of plagiarism. A student representative made a similar plea, noting that an unwitting person, presumably believing in the originality of his or her presentation, could be found guilty of plagiarism almost by the mere fact of accusation.

As noted above, the CLRC's definition was adopted. It will come into force, according to GFC regulations, after publication in the 1987-88 Calendar.

### Co-op Program

A co-operative education program in Agricultural Engineering has been endorsed by General Faculties Council and will be implemented this coming September. The program, sponsored by the Faculties of Engineering and

The proposal was adopted in face of another suggested by the GFC Executive Committee which included the words "without proper acknowledgment"—a definition arrived at by the Executive Committee after several hours of arduous discussion. The reason for controversy was the express desire of the CLRC to remove "intent to deceive" from the definition of plagiarism, and thus evidently allow conviction of those guilty of this most serious academic offence. As CLRC Chairman David Norwood noted, the Committee believes plagiarism to be an "absolute liability". Whatever penalty is to be exacted should be subject to the gravity of the case and the degree to which there was intent to deceive.

Fine points that raised debate.

The background to the amendment was interesting. According to University Discipline Officer E. Blackburn, six cases at the senior undergraduate or graduate level had come before him during the past year after very careful evaluation at the appropriate department and Faculty levels. In each case, the student was acquitted, even though Blackburn's opinion was that they "flagrantly plagiarized", an opinion echoed later by Dean White in referring to an act of "gross plagiarism" on the part of one of the acquitted. J.C. Robb, presenting

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Agriculture and Forestry, will be subject to an enrolment quota, with up to seven students entering at the second-year University level. The total second-year quota in Agricultural Engineering, however, will not change.

The aim of the program is to provide an opportunity for students to obtain industrial work experience that will complement their academic studies.

### Research Results: Delay of Publication

GFC was asked to consider a report from the Office of the Vice-President (Research) regarding exceptions to policy concerning the delay of publication of research results. This report was the first annual report of the Vice-President (Research), the policy having been established last summer.

Essentially, the policy calls for the publication of research results without any time restrictions. However, in the case of research grants and contracts funded by external agencies, publication of research results should not be delayed beyond 18 months from the date of submission of a final report (GFC Policy Manual Section 96). Exceptions to the policy must be approved by the Vice-President (Research) and reported annually to GRC.

According to Vice-President Kaplan's report, no publication conditions exceeded the guideline of 18 months. There were, however, two instances where researchers were released formally from publication constraints in contracts. J.P. Das, involved in a study on the "Impact on Community Resources of Integrated vs. Segregated Education for Dependent Handicapped Children" sponsored by Alberta Social Services and Community Health, will be allowed to publish his final report and data gathered during the project, even though the Crown retains ownership. A.W. Bailey, preparing a thesis on the Poplar Lake Range Unit of the Prince Rupert Forest Region sponsored by the Province of British Columbia, was released from conditions in the contract that related to ownership, copyright and confidentiality. According to a letter from the B.C. Ministry of Forests to R.E. Armit, Director of Research Services, that Ministry recognizes "that the copyright for the thesis resulting from this contract is the property of the University of Alberta."

Questions were raised about another case of contract work in which release has not yet been gained. Armit accepted the condition, on behalf of the University, that B. Larke should not

publish matters relating to an "Immunization Program Against Hepatitis B Infection to the Residents of the Baffin Zone" without permission of the Minister (Health and Welfare Canada) on the grounds that the program "involves the delivery of a service and not the conduct of research." His letter, sent to Health and Welfare Canada in July 1985, nevertheless acknowledged "trepidation" in endorsing an agreement which restricted publication without the permission of the Minister. "Universities," he stated, "cannot agree to clauses like this as a principle." While endorsing the agreement, Armit

asked the addressee (ADM, Medical Services Branch, HWC) "if you are in a position to provide permission to publish non-confidential matters of significance resulting from the work, a letter from you indicating this agreement would be much appreciated."

The fact that a response has not been received almost a year later caused some concern at the GFC meeting. Whether or not Larke's program is to be characterized as "delivery of a service" as opposed to "research", the nature of the program and its high importance was considered such that appropriate publication should not be impeded.

### Native Studies

Michael Asch, Chairman of the GFC Committee on Native Studies, presented the annual report of that Committee. The report was brief, its main feature being public recognition of the major contributions to the development of the School of Native Studies made by its Acting Director T. Pocklington. Now that Richard Price has been named Director of the School, the GFC Committee will be reconstituted as the interim council for the School of Native Studies. □

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## Vice-President (Research) Envisions Silicon Valley North

*At Spring Convocation Part V, 6 June, J. Gordin Kaplan, Vice-President (Research), delivered the following Report.*

Eminent Chancellor, Incipient Honorary Doctors of the University of Alberta, Graduates and Families, Colleagues, Ladies and Gentlemen:

Last week I spent a few days in Santa Clara County, California; this county is the heart of Silicon Valley. From this fascinating experience I take the text of today's homily. I shall tell you what Silicon Valley is and how it got that way and describe our University's connection with industry in that region, the consequences of this relationship to the University and the implications of this to the economy and prospects of Alberta. And all this in less than 15 minutes; in Silicon Valley you move fast or you're dead!

Silicon Valley, the area immediately south of San Francisco Bay, was at the end of the Second World War an agricultural area known mainly for its fruit orchards; these, for better or for worse, have been replaced by about 4,000 industrial concerns, most of them in high technology. Two of the companies that my colleagues and I visited are located in the city of Milpitas, on the southern rim of the bay. This had a population of some 5,000 in 1950; it now has a population of about 100,000, almost all of whom work in, or service, or are indirectly supported by the hundreds of high tech firms located nearby. In the San Francisco Bay area, high technology (and I include biotechnology) supports a population not much less than that of the Province of

Alberta.

How did this transformation begin? The electronic era may be said to have started with the discovery of the audion in 1912 in Palo Alto. This was a vacuum tube used to detect and amplify radio signals. Its inventor was Lee De Forest who worked for the Federal Telegraph Company of Palo Alto, a company that had been founded by a Stanford University graduate and by a small group that included Stanford's first President, David Starr Jordan. Stanford's involvement with the electronics industry is thus three quarters of a century old.

The modern chapter began in 1937; the central figure was Frederick Terman, a Professor of Electrical Engineering and for many years Dean of the School of Engineering at Stanford. He encouraged his students to work for industries in the Stanford area or better still to start their own. Among his students were William Hewlett and David Packard who, under the guidance of Terman, invented the audio-oscillator, a signal generator. Again with Terman's encouragement, they started a two-man manufacturing operation in 1937 in Packard's garage. This became the Hewlett-Packard Company which has 85,000 employees world-wide and annual sales in excess of \$6 billion. The company has maintained a close connection with Stanford; indeed while I was visiting the University, David Packard presented to Stanford a modest gift of \$70 million. Cast thy bread upon the water . . . !

Twenty years later, the vacuum tube was replaced by the solid state transistor and, later, it in its turn by the silicon microchip; thousands of

companies have sprung up to exploit the commercial potential of these solid state semiconductors. Many companies have been spun off from Stanford and Hewlett-Packard in recent years as they had been from Federal Telegraph half a century before.

One of these spin-off firms is called LSI Logic. This company, founded in 1981, began with a software capability permitting them to design—or to help customers design—the circuitry on a silicon chip that made it able to carry out all the electronic operations required for a complex specific application;—this one chip would replace the many less specific chips previously required for the purpose. Five years after its founding, LSI had revenues in 1985 of \$140 million mainly from the sale of these application-specific integrated circuits and it now has some 1,500 employees world-wide. The main purpose of our visit to California last week was to meet with officers of this firm and to have a firsthand look at their operations. You will see why in a moment.

In 1981, the same year in which LSI Logic started, the University of Alberta created its Alberta Microelectronic Centre (AMC). This was made possible by a \$1 million grant from the Federal Department of Industry Trade and Commerce (now DRIE). The purpose of the AMC was to permit the considerable research expertise of our Department of Electrical Engineering to be available to the private sector with a view to building up in Alberta a strong microelectronic industry and to encourage the use of microelectronics by other industries. In fiscal 1985, the

Alberta Department of Economic Development under its dynamic and far-sighted Minister, Hugh Planche, made a \$14 million grant to the Alberta Microelectronic Centre that permitted it to open a microchip design centre in Calgary in association with the Departments of Computing Science and Electrical Engineering of the University of Calgary, and a fabrication facility, housed in the Newton Building of the University of Alberta.

Now let me try to put these elements together. On 31 December 1985, and after a good year of intense negotiation, an agreement was signed between Alberta Economic Development (soon to become the new Department of Technology, Research and Telecommunications), and LSI Logic, the effect of which was to make the company's proprietary information with respect to the design and manufacture of application-specific chips available to the Alberta Microelectronic Centre. During my trip, I was able to visit with six enthusiastic young engineers and technicians who were sent to California by the AMC to work for several months in the various units of LSI Logic and who will soon bring this complex new technology back to Canada. This collaboration was made possible as a result of another major investment by the Alberta Government through the Department of Economic Development. The effect will be that the Alberta Microelectronic Centre will have in operation

before the end of the year a state of the art microchip metalization fabrication facility at the University of Alberta that will produce the most modern application-specific integrated circuits; a corresponding advanced microchip design facility equipped with LSI software will be in place at the University of Calgary. *These facilities will provide researchers and students at the Alberta universities with the most advanced microchip technology available in Canada.* At the same time the Alberta Microelectronic Centre will be able to offer Alberta and Canadian industry gate array prototypes and a design service unequaled anywhere else in this country. As a result of these developments, the Centre will play a leading role in educating engineering and graduate students in microelectronics; it will offer infrastructure support to existing industry and at the same time be a catalyst in attracting new industry. The Alberta Microelectronic Centre will have a major part in creating exciting new career opportunities for graduates of Alberta's educational institutions.

### New Canadian Company

One of the immediate consequences of this investment by the Alberta Government has been the creation of a new Canadian company, LSI Logic Canada Ltd. Its headquarters have been established in Calgary; a design centre has been opened in Calgary and another will open shortly in Edmonton. Other design centres

will be located in Montreal, Ottawa, Toronto and Vancouver. By 1988 there are expected to be close to 300 employees, more than half of them in Alberta.

And this is just the beginning. We anticipate the announcement of the establishment in Alberta of a commercial enterprise linked to the Alberta Microelectronic Centre, which will supply to its industrial clients masks or reticles: these function in microelectronics much like the master plates or stencils used by printmakers, since a single reticle can be used in making hundreds or thousands of identical integrated circuits on silicon wafers. It is probable that other microelectronic industries will be attracted to Alberta because of the magnet effect of the Alberta Microelectronic Centre and LSI. Furthermore, a program of cooperative research and development has been proposed involving the Alberta Laser Institute, which is another arm's length subsidiary of the University of Alberta, and the AMC and LSI Canada. This research would deal initially with the use of lasers to make masks and reticles instead of the electron beams mainly used at present in this process; its long-term goal would be to perfect a process of direct automated laser 'writing' on silicon wafers, eliminating the need for the reticle or stencil. We anticipate that this will lead to the presence of new laser companies to join the several already in operation in Edmonton.

Mr. Chancellor, these developments as well as the numerous high technology companies that already exist in our province do not yet constitute a Silicon Valley North; but the conditions and much of the infrastructure, including the Alberta Laser Institute and the new Electronic Test Centre at the Alberta Research Council, are now in place to make it possible to realize that goal. Already a number of biotechnology companies have established themselves in Alberta; Chembiomed Ltd., the University of Alberta's biotechnology firm, had revenues in the last fiscal year of \$1.2 million, expects to double that figure this year and will soon break ground for its large new research and production facility in the Edmonton Research and Development Park in Millwoods. The University of Alberta is presently helping to launch four other biotechnology firms, all of which will soon bring to the marketplace discoveries, inventions and expertise that were developed at this University by our researchers. It is thus not outrageous to predict that within five years there will be in the

Edmonton area 100 new advanced technology and biotechnology firms employing some 3-4,000 people, many of them graduates of the Universities of Alberta and Calgary.

Do we want to create in Alberta such an industrial base? Let us consider the alternatives. Reliance on the sale of our low value-added renewable and non-renewable resources puts us in the not particularly enviable situation in which we now find ourselves; when the price of wheat and oil go down together the advantages of a diversified economy become miraculously clear. But why diversify in the direction of these advanced technologies? Well, Mr. Chancellor, if people come forward to start up steel mills, or auto parts or aircraft engine factories in Alberta, they certainly won't be turfed out; but let's not hold our breath awaiting these developments. We already have almost everything it takes to succeed in advanced technology: this depends on making proper use of the brain power of our scientists and engineers, the entrepreneurial skill of our business people, the imagination of our professionals and of our politicians and civil servants. The new technologies may well be for us the only game in town and we had better start playing seriously.

What about the stakes required to buy into the game? The one indispensable requirement is a first-class university. This is what the major high technology centres have in common: Silicon Valley with Stanford and the University of California, Route 128 with Harvard and MIT, research triangle park with the three major North Carolina universities. Not only are many of the advanced technology companies spun off from the universities or attracted by them, but most require the continued stimulation and intellectual nurture that university professors and students can provide. For example, LSI Logic has a research group located close to the Stanford campus and pays a fee each year to join the industrial affiliates program at Stanford and the University of California; this gives them access to research groups involved in research of interest to the company.

What all of these universities share is a world reputation for excellence of their research and scholarship. And research is a continuum; such universities have a reputation in the humanities and social sciences equal to that which they enjoy in the physical and health sciences and engineering. Indeed, MIT has won more Nobel prizes in economics than has any

## Writing Competence Petitions

Notice to students who have not met the University's writing competence requirements and whose deadline for meeting those requirements is or was 30 April, 1 May, 1 July or 1 September 1986.

If you plan to enrol in Fall session 1986 and you have not yet passed the writing competence test, you may petition the GFC Writing Competence Petition Committee for permission to continue your registration.

Registrations of students who do not successfully petition or pass the writing competence test will be cancelled prior to the start of classes.

Advice on preparing and submitting petitions can be sought from the Student Ombudsmen, Room 272 Students' Union Building, or the Student Advisers in the Office of the Dean of Student Services, Room 300 Athabasca Hall. The regulations and procedures used by the GFC Writing Competence Petition Committee are available in either of these offices.

Hearings will be held from 11 to 15 August. **The deadline for submitting petitions is Friday, 1 August 1986.**

other institution.

The Government of Alberta, under Premier Lougheed, introduced a number of policies of exceptional statesmanship and imagination. One, of course, was the creation of the Heritage Fund. Another was the use of a small portion of the Heritage Fund to endow the Alberta Heritage Foundation for Medical Research that supports fundamental, clinical and applied research in Medicine, Dentistry, Pharmacy and related sciences; another was to start the Alberta Foundation for Nursing Research. Having dropped one shoe, it is time for the Alberta Government to drop the other one. We now need two other foundations, one to support research in the natural sciences and engineering and the other in the

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## New Academic Representative for Board of Governors

V.G. Gourishankar (Electrical Engineering) was elected recently as academic staff representative to the Board of Governors, replacing Dr. W. John McDonald, whose term expires 14 July.

Dr. Gourishankar joined the University as Associate Professor in 1965, having obtained the degrees BEE (Madras), and MS and PhD (Illinois). His teaching and research interests are in control systems, and he has published a number of papers in this area. He is a member of the Steering Committee of the proposed Alberta Centre for Machine Intelligence and Robotics, and is co-author of a textbook on electromechanical energy conversion. In 1982, he was invited to the People's Republic of China to deliver lectures in Harbin and Shanghai on optimal and adaptive control.

From 1977 to 1982, Dr. Gourishankar served the Academic Staff Association as member of Council (77-8), Chairman of the Salary Committee (78-9), Vice-President (79-80), and as President for two terms (80-2). In addition to serving on several Faculty of Engineering and Electrical Engineering Department committees, he has also served as a member of General Faculties Council, the General Salaries and Promotions Committee, the 75th Anniversary Policy Committee, and the Committee on Private Companies and Consulting. During 1985-86, he served on the executive of the University Nuclear Disarmament Organization. □

social and human sciences. In January 1983, the four universities of Alberta jointly submitted a proposal with respect to these new foundations; it is time for the Government to act to create them. As a scientist who has spent his entire professional life in biomedical research and who has personally received generous support from the AHFMR, I can say without fear of being accused of special pleading that progress in the health sciences depends

squarely on advances in the natural sciences and in engineering. *Achievement of excellence in our universities requires balanced support of research and scholarship in all the major disciplines of higher learning.*

Mr. Chancellor, our province is now passing through stormy economic seas. I hope to have convinced you that our University is playing a major part in creating the conditions required to make safe harbour. The University of Alberta will continue to exercise

leadership in the task of establishing Alberta as a world centre of advanced technology, but to do so we require the support and understanding of the people of this province and of its government. The twenty-first century looms; let us ensure that we are ready for it.

My warm congratulations go to today's graduates (and especially to their justifiably proud families). May you live challenging and fulfilling lives in a peaceful world and a prosperous Canada! □

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## Competitive Edge Campaign Under Way

The Business Faculty's major fund-raising drive designed to improve and expand business education at the University was officially launched on 17 June with a luncheon in the Stollery Centre.

The campaign objective is to raise \$3.5 million from the private sector. Provincial Treasurer Dick Johnston (the former Minister of Advanced Education and an alumnus of this University) said the government is committed to helping Alberta educational institutions and encouraging greater involvement with the community. The government is offering a two-for-one matching grant for donations through the Alberta Education Endowment and Incentive Fund. This will bring campaign funds to more than \$10 million.

H.J. Sanders Pearson, Campaign Chair, said the main thrust of the drive will be to endow eight Chairs at \$250,000 each, five fellowships at \$100,000 each and dedicate another \$1 million to various awards and scholarships. Mr. Pearson added that several local groups and individuals have already pledged \$1.4 million towards the campaign.

Speaking at the kickoff luncheon, Mr. Pearson said, "Good faculty are much in demand and hard to get. Harvard, Stanford and Berkeley are looking for people and they can offer them a 40 percent break on the dollar and lower income tax rates. It's a very tough, competitive world and we need to supplement ordinary university income with income from a Chair." Mr. Pearson went on to say, "We need the best people in North America in this Faculty because we need the best future business managers to get the economy going and to keep it going."

Dean Roger Smith said, "Increasingly, in North America, better business schools have attracted large amounts of private support. Combining that private support with public funds, they

have been able to make very attractive offers to the better people. If we want to keep some of the better people at the University of Alberta and attract additional ones, we simply have to have private support."

Francis Winspear, a former Dean of the Faculty (then the School of Commerce), said he disagreed with the word "gifts". Dr. Winspear feels the business community has an obligation to help the University because it makes such a great economic and cultural contribution to the community. He told luncheon guests that he and others owe the University something of their lives and "... they're pikers if they don't pay up."

Dr. Winspear and the Winspear Foundation recently donated \$667,000 to the University for the endowment of the Winspear Chair of Accounting. Harry Gunning, a Director of the Foundation, presented the cheque to President Horowitz and the money, when matched by the Province, will ensure that the Chair will be

occupied in perpetuity. The Winspear Chair, established by Dr. Winspear in 1979, attracts internationally-acclaimed experts in the field of accounting. Until now, the Chair has been funded by annual contributions by the Winspear Foundation, which have been matched by Alberta Advanced Education. Income from the endowment is to replace the annual contribution from the Foundation and the Province.

Former Premier Peter Lougheed, who is a new member of the Faculty's Business Advisory Council, said the universities have a great role to play in economic development. Mr. Lougheed noted that the objective of the campaign is to strengthen what is already a strong staff.

The Competitive Edge Campaign has been endorsed by President Horowitz as one of the few principal fund-raising activities for the University in 1986. The target date for completion of campaign solicitations is December 1986. □

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## Price to Head Native Studies School

Richard Price has been named Director of the School of Native Studies with a five-year term effective from 1 July 1986. Price, known to many for his recent contretemps with the federal government over matters of principle, is a graduate of this University with BCom, BD, and MA degrees.

Most recently a consultant working with Indian Bands and Associations, Professor Price was Director of Program and Policy Consultation, Indian and Inuit Affairs, in Ottawa and, before that,

held a succession of senior positions in the same agency's Alberta Region.

Beginning September 1986, the School of Native Studies will offer two Cree language and two introductory native studies courses. The School will focus on academic programs, while student services will be the responsibility of the Office of the Dean of Student Services. It is envisaged that the School will expand its programs and, should funds be available, eventually offer a degree in native studies. □





*Retiring Chancellor Peter Savaryn and his wife, Olya, received the plaudits and best wishes of the University community at a garden party at University House on 23 June. By all accounts, Mr. Savaryn's actions during his term of office reinforced these words spoken at his installation on 6 July 1982: "He ranks his community before himself. He guides, aids, counsels and leads selflessly; always in complete sincerity and openness, and generally with good result."*

## Abetti to Conduct Technology Transfer Seminar

A Technology Transfer Seminar will be offered at the Stollery Centre (Floor 5, Business Building) next Monday, 14 July. It will be lead by P.A. Abetti, Professor of Management Technology at the Rensselaer Polytechnic Institute in New York. The seminar is sponsored by the Office of Research Services and Alberta Technology, Research and Telecommunications.

The day-long program will be introduced by R.J. Crawford and will feature presentations by Dr. Abetti as well as other offerings by the Alberta government department, and the University's Office of Research Services and Management Advisory Institute. Toward the end of the afternoon there will be a panel discussion.

Only the afternoon session is open to the public. However, in addition to the panel discussion noted above, there will be a presentation by Dr. Abetti.

Dr. Abetti is a world leader in his field. He is a graduate of the University of Pisa and the Illinois Institute of Technology in Chicago. From 1948 until 1981, he held senior positions with the General Electric Company, apart from a two-year stint as Deputy General Manager for UNIVAC in Europe. These positions included head of GE's Extra-High Voltage Project, Manager of that company's Electrical and Information Engineering Laboratories, Manager of GE's Large Computer Systems in

Paris, Manager of Data Communications in Phoenix and Manager—Private Telephone Systems Product in Lynchburg, Virginia. From 1974 to 1979, Dr. Abetti was stationed in Brussels as Manager of the Europe Strategic Planning Operation and, from 1980 to 1982, Consultant, Research and Development for the Technical Systems and Materials Sector in New York.

In 1982, Dr. Abetti took up his present position at the Rensselaer Polytechnic Institute. Since then he has developed RPI's MBA program concentrating on the management of technology and courses on

## Distinguished Biochemist and Historian of Science to Visit

John T. Edsall, Professor Emeritus of Biochemistry at Harvard University, will present a lecture titled "History of Carbon Monoxide Poisoning: Its Relations to Protein Allostereism and Public Health" on Wednesday, 23 July, at 11 a.m. in 2J402 Classroom F, Walter C. Mackenzie Health Sciences Centre. Dr. Edsall's visit is sponsored by the Alberta Heritage Foundation for Medical Research and he is a guest of our Department of Biochemistry.

Dr. Edsall is a distinguished protein chemist who has made many outstanding contributions in the areas of protein structure-function and the physical chemistry of biological macromolecules. He is the author of several definitive treatises on these subjects. In recent years, he has turned his attention to the

history of biochemistry emphasizing blood as a physico-chemical system and hemoglobin as a protein whose chemical structure is adapted to its function. He has also written widely on a number of subjects, including the social responsibility of scientists.

Dr. Edsall is the recipient of many honours and awards, including membership in the National Academy of Sciences, the American Philosophical Society and the American Academy of Arts and Sciences, the Passano Award in Biomedical Sciences and the Willard Gibbs Medal of the American Chemical Society. □

## Talks

### Physics

10 July, 3:30 p.m. H. Katsumata, University of Michigan, "Radiative Corrections to Vector Boson Masses for Heavy Higgs Bosons." P631 Physics Building.

### Student Legal Services

10 July, 7 to 9 p.m. Free public semi. on "Family Law." For further information and free reservations, contact Student Legal Services, 432-2226.

### International Institute for Peace Education

10 July, 7:30 p.m. Rosalie Bertell, Director, International Institute of Concern for Public Health, "Low Level Radiation: No Immediate Danger?" 2-115 Education North.

### Computing Science

11 July, 2 p.m. D.J. Abel, CSIRO Division of Information Technology, "A Kernel/Shell Approach to a Spatial Database Management System." 619 General Services Building.

### Alberta Heritage Foundation for Medical Research

23 July, 11 a.m. John T. Edsall, Professor Emeritus of Biochemistry, Harvard University, "History of Carbon Monoxide Poisoning: Its Relations to Protein Allostereism and Public Health." 2J402 Classroom F, Walter C. Mackenzie Health Sciences Centre.

## The Arts

### Ring House Gallery

Until 31 August. "Leslie Poole—Drawings."

### Edmonton Film Society

14 July, 8 p.m. The Hollywood Musical, "Presenting Lily Mars" (1943). TL-11 Tory Lecture Theatre.  
21 July, 8 p.m. "Rose Marie" (1954). TL-11 Tory Lecture Theatre.

## Medical Faculty to Host Satellite Symposium on Nerve Regeneration

The Division of Neurosciences, Faculty of Medicine, with the support of the Alberta Heritage Foundation for Medical Research, the Muscular Dystrophy Association of Canada, University of Alberta and Bio-Med Systems Corporation, will be hosting a symposium on "The Current Status of Peripheral Nerve Regeneration" from 21 to 23 July.

Thirty-four speakers from a number of countries, for example, Yugoslavia, France, Japan, the United States, West Germany and Canada, will, in all-day lecture sessions, cover a wide spectrum of

topics, including "Response of the Neurone to Injury," "Reinnervation of Target Organs," "Surgical Repair and Recovery of Function," and "the Role of Non-neural Cells and Extra-cellular Matrix in Regeneration." There will also be 25 poster presentations displayed outside the lecture theatre (2-27 Medical Sciences Building).

Participants will have the opportunity to exchange information and ideas at such social functions as a barbecue at Fort Edmonton Park, a wine and cheese reception and poster sessions at the Medical Sciences Building. □

## Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

## Academic

### Instructor, Division of Medical Laboratory Science

Medical Laboratory Science requires a microbiology instructor for the second year of its program. Duties include: coordinating the laboratory teaching for microbiology, culture preparation, assisting instructors in other laboratory courses, and some lecturing to first- and second-year students.

Qualifications: BSc with RT (General) certification and an interest in microbiology. Some experience in other laboratory disciplines would be an asset.

Date of appointment: This is a permanent position, commencing 1 August 1986.

Salary: \$25,792 to \$37,432 per annum.

Interested persons should submit curriculum vitae and the names of two references before 11 July 1986 to: Coordinator, Medical Laboratory Science, B-117 Clinical Sciences Building, Edmonton, Alberta T6G 2G3.

### Tenure Track Position, Department of Pharmacology

The Department of Pharmacology is seeking applications for a tenure track faculty position at the level of assistant professor. (Salary range \$31,612 to \$45,340.) Applicants should have a PhD in Pharmacology or a related discipline, proven research abilities, and be enthusiastic and competent lecturers. Areas of particular research interest in the department are pharmacology of adenosine and its analogues, actions of drugs on smooth muscle and electropharmacology of nerve and muscle.

Closing date: 31 August 1986.

Those interested should apply in writing enclosing a curriculum vitae, the names of at least three referees, and any other relevant information to: Dr. D.A. Cook, Chairman, Department of Pharmacology, 9-70 Medical Sciences Building, Faculty of Medicine, University of Alberta, Edmonton, Alberta T6G 2H7. Telephone: (403) 432-3575.

### Applicants for Research Scholarships, Department of Pharmacology

The Department of Pharmacology is seeking applicants for Research Scholarships offered by external granting agencies, such as the Alberta Heritage Foundation for Medical Research. These awards are by competition, have a five-year term (renewable) and have an academic rank and salary similar to regular faculty positions. (Assistant/Associate Professor \$31,612 to \$45,340/\$39,620 to \$57,236). Applicants should have a PhD in Pharmacology or a related discipline, proven excellent and well-documented research skills. Areas of particular research interest in the department are pharmacology of adenosine and its analogues, actions of drugs on smooth muscle and electropharmacology of nerve and muscle.

Closing date: 31 August 1986.

Those interested should apply in

writing, enclosing a curriculum vitae, the names of at least three referees, and any other relevant information to: Dr. D.A. Cook, Chairman, Department of Pharmacology, 9-70 Medical Sciences Building, Faculty of Medicine, University of Alberta, Edmonton, Alberta T6G 2H7. Telephone: (403) 432-3575.

## Employee Relations Coordinator

The University of Alberta, Department of Personnel Services and Staff Relations, is currently seeking an Employee Relations Coordinator.

This position reports to the Director, and the incumbent is a key member of a personnel team which provides professional service in a client-based environment. The major responsibilities of this position relate to the administration of a comprehensive collective agreement for a large support staff (3,000), including grievance administration, collective bargaining, and supervision of a small group, including professional staff.

Applicants should have post-secondary training in Employee/Labour Relations and considerable experience in this field. Excellent communication skills are a necessity. Recent experience with a large public sector organization would be most desirable.

This position offers a salary range of \$32,188 to \$48,292 per annum.

Closing date for applications is July 25, 1986. Please submit to:

Personnel Services and Staff Relations  
2-40 Assiniboia Hall  
University of Alberta  
Edmonton, Alberta  
T6G 2E7



University of Alberta  
Edmonton

## Non-Academic

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. These vacancies cannot be guaranteed beyond the date of publication.

Clerk Typist II, Anthropology, (\$1,190-\$1,478)  
Clerk Steno II (Term to 30 April 1987), Recreation and Leisure Studies, (\$1,190-\$1,478)  
Clerk Typist II (Trust), Institute of Law Research and Reform, (\$1,190-\$1,478)  
Clerk Typist II (Term to 31 January 1987) Provincial Lab, (\$1,190-\$1,478)  
Purchasing Clerk II, Faculty of Extension, (\$1,326-\$1,666)  
Student Record Processing Clerk, Faculty of Extension, (\$1,326-\$1,666)  
Clerk Steno III, Secondary Education, (\$1,326-\$1,666)  
Clerk Steno III, International Briefing Centre, (\$1,326-\$1,666)  
Clerk Typist III, Office of the Dean of Student Services, (\$1,326-\$1,666)  
Clerk Typist III (Technical), Mathematics, (\$1,326-\$1,666)  
Senior Financial Records Clerk, HUB Mall, (\$1,326-\$1,666)  
Systems Control Clerk, Alumni Affairs, (\$1,371-\$1,739)  
Secretary (Trust), Institute of Law Research and Reform, (\$1,478-\$1,888)  
Secretary, Dentistry (Stomatology), (\$1,478-\$1,888)  
Administrative Clerk (to 31 March 1987), Office of Research Services, (\$1,478-\$1,888)  
Medical Steno, Pediatrics, (\$1,478-\$1,888)  
Medical Steno, Medicine, (\$1,478-\$1,888)  
Departmental/Executive Secretary, Physical Therapy, (\$1,666-\$2,144)  
Library Assistant II (28 hours/week), University Collections, (\$1,227-\$1,574)  
Publications Assistant II (Trust, Part-Time—20 hours/week), Medical Publications, (\$952-\$1,225)  
Dental Assistant II (Trust), Dentistry, (\$1,425-\$1,810)  
Technician I (Trust), Home Economics (Family Studies), (\$1,534-\$1,968)  
Audiovisual Technician I, Instructional Technology Centre, (\$1,534-\$1,968)  
Technician I (Part-Time, Trust), Psychiatry, (\$767-\$984)  
Art Technician Demonstrator I, Art and Design, (\$1,810-\$2,337)  
Electronics Technician III, Physical Therapy, (\$2,053-\$2,661)  
Pipefitter Foreman (Pipe trades), Physical Plant, (\$3,427)

For vacant Library positions, please contact the Library Personnel Office, Basement, Cameron Library, 432-3339.

### Systems Engineering Officer, Department of Physical Plant, Energy Management Division

The University of Alberta is seeking an individual who is a self-starter, highly motivated, with excellent communication skills. The individual must have an engineering degree and considerable experience in the design and operation of process control technology as applied to buildings.

This supervisory position is responsible for all engineering aspects for the development, construction and installation, and the software operation of a direct digital control computerized facility installed and operating the HVAC systems in University facilities. Other major responsibilities include the coordination of a Commissioning Program for all major and minor construction projects, development and implementation of energy conservation projects, development and maintenance

of projects such as computer inventory of Physical Plant equipment, computer-aided drafting and design facilities, electronic maintenance group, and development and maintenance of air quality standards for University facilities.

Salary Range: \$34,898 to \$52,358 per annum. Starting salary commensurate with qualifications and experience. As well, the University offers a comprehensive benefits package.

Further information is available from and applications should be directed to: R.A. Jackson, Personnel Administrator, Department of Physical Plant, 563 General Services Building, University of Alberta, Edmonton, Alberta T6G 2H1. Telephone: 432-3387.

Deadline for applications: 25 July 1986.

## Advertisements

### Accommodations available

Sale - Immaculate, charming bungalow close to University. Garage, deck, \$59,900. Jiri, 459-7829, 483-1255, Johnston's.

For sale or rent - Two-bedroom cottage. Mulhurst (Pigeon Lake). Winterized, modern plumbing, wood stove. Phone Barb Clubb, 427-2556, 439-3237.

Sale - Lendrum gem. Three-bedroom bungalow. Upgraded, oak kitchen, fireplace, developed basement. \$88,900. Call Joyce Byrne, 435-6064, 436-5250. Spencer's.

For lease - (With option to buy). Large, 16th floor condo., overlooking Legislature Buildings. Two bedrooms, two bathrooms, five appliances. Phone 423-0161 after 6 p.m.

Half acre of view on Vancouver Isle. Five-minute drive from Comox. Five-minute walk from water. Asking price is \$17,500. Please call 5986 and ask for Masako Walley.

Sale - Two-bedroom condo with 1 1/2 baths in Garneau Place. Walk to University. Call Candy, 457-3777. Re/Max.

Sale - You can own this two-bedroom condo with swimming pool and tennis court for \$64,900. Call Candy, 457-3777. Re/Max.

Rent - M/F to share furnished two-bedroom house. Large kitchen, study, garage, all utilities. Strathcona area. 431-0247.

Sale - Windsor Park. New exclusive listing. 50x150, south yard. Hardwood floor, woodburning fireplace. Charming exterior invites redecoration, some renovation. Ask for Pat von Borstel, 437-5250, Spencer's, 437-6540.

Exchange - For one year, starting August or September, furnished luxury two-bedroom condo for quality accommodations in any Vancouver area. Phone (403) 482-3330 or 967-3034 weekends.

Rent - Four-bedroom, three-bathroom house, attached garage, fireplace, six appliances. 18411 90 Avenue (15 minutes from University). \$650/month plus utilities. September-June. (403) 487-2799, Dave Alexander.

For sale - 1,500 sq. ft. "California" bungalow in Brookside. Features family room with fireplace, four-piece ensuite, mother-in-law suite and superb landscaping. Price \$119,900, Robert Kully, LePage. 437-7480, 437-5364.

Sale - Windsor Park. New listing. Immaculate 1,548' bungalow. Large

family kitchen. Two fireplaces. Lot 75'x150'. Single attached garage plus double. Super University location. Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - Windsor Park. Charming 1 1/2 storey. Hardwood floors. Fully developed, well maintained. Lot 55'x150'. Excellent University location. Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - Grandview. 2,400' custom-built home. Immaculate. Large rooms. Main level family room. Double attached garage. Quiet location. Close to ravine. Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - Belgravia. Charming home. Hardwood floors throughout. Immaculate. Very private south yard. Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - 160-acre retreat only \$25,900. Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - Riverbend. Attractive immaculate home. Bright and cheery. 1,980'. Four bedrooms. Quiet location. Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - One-acre city lots. \$49,000 up. Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - St. Albert-Lacombe Park. Immaculate home with countryside view from sun room. Many nice extra features. Only \$89,700. Chris Tenove, 433-5664, 436-5250. Spencer's.

Rent - Well-kept furnished bungalow. University area. Six appliances. 466-0826, 429-1886.

Sale - 1 1/2-storey hillside bungalow. 3,000', three baths, four bedrooms, six appliances, cedar deck, six miles S.E. of Edmonton on fully treed three-acre lot. 922-5060.

Sale - 1 1/2 storey (with new plumbing and heating) on 35 scenic lakefront acres, barn, shop, garage. Near Miquelon Lake. \$63,000. 922-5060.

For rent - Three-bedroom, 1 1/2-storey furnished home. Family room, fenced, double garage. 20-minute bus to University. 7703 79 Avenue. August 1986-August 1987. \$650/month. 466-2885.

For rent - 1 August 1986. Small, cozy, renovated two-bedroom house.

Garage, deck, many extras. \$500/month. 434-4566.

#### Accommodations wanted

Visiting professor, wife, two pre-schoolers, optional cat need unfurnished, 2-3 bedroom house/suite in family neighborhood. Easy access to University. Twelve months commencing end August/September. (218) 233-8430.

Writer-in-Residence, 1986-87, needs furnished house, apartment, near University. Scrupulous with furnishings. Ray Smith, 11 Burton Avenue, Westmount, Quebec, H3Z 1J6. (514) 483-5822; locally 435-9372. September-April inclusive.

Sublet - Family would like to sublet close to the University from now to 26 July, while attending summer session. Phone 835-2677, Fairview, Alberta.

Furnished accommodation required for distinguished University visitor and wife close to University for three months from mid-August to mid-November 1986. Call 432-4489.

Responsible couple want to rent/caretake home. September. David Campbell, 433-5592.

#### Automobiles and others

1979 Pontiac Parisienne stationwagon. 350V8 AC. Loaded, well maintained. \$2,900. 437-1138.

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1976 BMW 2002. 53,000 miles. New Blaupunkt FM/cassette w/pioneer speakers. Needs paint. \$4,950 or best offer. Ext. 4301 or 474-4715.

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Books bought and sold - The Edmonton Book Store in HUB Mall will pay cash for book collections and individual, rare items. Appraisals available. Open seven days a week. 433-1781.

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E.T. Seamstress & Tailors. 11904 127 Ave. General alterations specialist. Phone 451-0087. (We have the technology).

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Hospital and Community Daycare Association is accepting registrations for summer and fall 1986. Location: On campus near hospital. For information: 433-9663.

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\$2/hour in our office. Mark 9, HUB Mall, 432-7936.

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